

In the Claims:

Claim 1, amend to read as follows:

1. (Twice Amended) A microchannel Cross load array, comprising:

a cathode,

an array of sample wells,

an array of waste wells, said sample wells comprising twice the number of

Sub  
C1  
waste wells,

an anode, and

an array of functionally identical channels, each channel having an injection point connected directly to only one well of said array of sample wells, connected directly to only one well of said array of waste wells, connected directly to said cathode and connected directly to said anode.